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IV. Emission-related components also include any other part whose only purpose is to reduce emissions or whose failure will increase emissions without significantly degrading engine/equipment performance.

### APPENDIX II TO PART 1068—EMISSION-RELATED PARAMETERS AND SPECI-FICATIONS

This appendix specifies emission-related parameters and specifications that we refer to for describing such things as emission-related defects or requirements related to rebuilding engines.

- I. Basic Engine Parameters for Reciprocating Engines.
  - 1. Compression ratio.
- 2. Type of air aspiration (natural, Rootsblown, supercharged, turbocharged).
  - 3. Valves (intake and exhaust).
  - a. Head diameter dimension.
- b. Valve lifter or actuator type and valve lash dimension.
- 4. Camshaft timing.
- a. Valve opening-intake exhaust (degrees from top-dead center or bottom-dead center).
- b. Valve closing—intake exhaust (degrees) from top-dead center or bottom-dead center).
- c. Valve overlap (degrees).
- 5. Ports—two stroke engines (intake and/or exhaust).
- a. Flow area.
- b. Opening timing (degrees from top-dead center or bottom-dead center).
- c. Closing timing (degrees from top-dead center or bottom-dead center).
- II. Intake Air System.
- $1. \ Roots \ blower/supercharger/turbocharger$ calibration.
- 2. Charge air cooling.
- a. Type (air-to-air; air-to-liquid).
- b. Type of liquid cooling (engine coolant, dedicated cooling system).
  - c. Performance.
  - 3. Temperature control system calibration.
  - 4. Maximum allowable inlet air restriction.
  - III. Fuel System.
  - 1 General
  - a. Engine idle speed.
- b. Engine idle mixture.
- 2. Carburetion.
- a. Air-fuel flow calibration.
- b. Idle mixture.
- c. Transient enrichment system calibration
- d. Starting enrichment system calibration. e. Altitude compensation system calibra-
- tion. f. Hot idle compensation system calibra-
- tion. 3. Fuel injection for spark-ignition engines.
- a. Control parameters and calibrations.
- b. Idle mixture.
- c. Fuel shutoff system calibration.
- d. Starting enrichment system calibration.

- e. Transient enrichment system calibration.
- f. Air-fuel flow calibration.
- g. Altitude compensation system calibration.
- h. Operating pressure(s).
- i. Injector timing calibration.
- 4. Fuel injection for compression-ignition engines.
- a. Control parameters and calibrations.
- b. Transient enrichment system calibration.
  - c. Air-fuel flow calibration.
- d. Altitude compensation system calibration.
- e. Operating pressure(s).
- f. Injector timing calibration.
- IV. Ignition System for Spark-ignition En-
- 1. Control parameters and calibration.
- 2. Initial timing setting.
- 3. Dwell setting.
- 4. Altitude compensation system calibration
- 5. Spark plug voltage.
- Engine Cooling System—thermostat calibration.
- VI. Exhaust System—maximum allowable back pressure.
- VII. System for Controlling Exhaust Emissions.
- 1. Air injection system.
- a. Control parameters and calibrations.
- b. Pump flow rate.
- 2. EGR system.
- a. Control parameters and calibrations.
- b. EGR valve flow calibration.
- Catalytic converter system.
- a. Active surface area. b. Volume of catalyst.
- c. Conversion efficiency.
- 4. Backpressure.
- VIII. System for Controlling Crankcase Emissions
- 1. Control parameters and calibrations.
- 2. Valve calibrations.
- IX. Auxiliary Emission Control Devices (AECD).
- 1. Control parameters and calibrations.
- 2. Component calibration(s).
- X. System for Controlling Evaporative Emissions
- 1. Control parameters and calibrations.
- 2. Fuel tank
- a. Volume.
- b. Pressure and vacuum relief settings.
- XI. Warning Systems Related to Emission Controls.
  - 1. Control parameters and calibrations.
  - 2. Component calibrations.

#### APPENDIX III TO PART 1068—HIGH-ALTITUDE COUNTIES

In some cases the standard-setting part includes requirements or other specifications that apply for high-altitude counties. The

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following counties have substantial populated areas above 4,000 feet above sea level and are therefore considered to be high-altitude counties:

Washington Weld

Bannock

STATE OF ARIZONA

Apache Cochise Coconino Navajo Yavapai STATE OF COLORADO

Bear Lake Bingham Blaine Bonneville ButteCamas Caribou Cassia Clark CusterFranklin

Adams Alamosa Arapahoe

Archuleta Boulder Chaffee Cheyenne Clear Creek Conejos Costilla Crowley Custer

Fremont Jefferson Lemhi Madison Minidoka Oneida Power Teton Valley

Park

Silver Bow

Wheatland

Delta

Denver Beaverhead Dolores Deer Lodge Douglas Gallatin Eagle Jefferson Judith Basin Elbert El Paso Powell  ${\bf Fremont}$ Madison Garfield Meagher

Gilpin Grand GunnisonHinsdale Huerfano

STATE OF NEBRASKA

STATE OF MONTANA

Jackson Banner Jefferson Cheyenne Kit Carson Kimball Lake Sioux La Plata

Larimer Las Animas

Saguache

STATE OF NEVADA Carson City Douglas Elko

Lincoln Mesa Mineral Moffat Montezuma Montrose Morgan Otero Ouray Park Pitkin Pueblo Rio Blanco Rio Grande Routt

Esmeralda Eureka HumboldtLander Lincoln Lyon Mineral Nye Pershing Storey Washoe White Pine

STATE OF NEW MEXICO

San Juan Bernalillo San Miguel Summit Catron  ${\bf Teller}$ Colfax

### § 1074.1

# **Environmental Protection Agency**

#### STATE OF WYOMING

Curry De Baca Grant Guadalupe Harding Hidalgo Lincoln Los Alamos Luna McKinley Mora Otero Rio Arriba Roosevelt Sandoval San Juan San Miguel Santa Fe Sierra Socorro Taos Torrance Union Valencia

STATE OF OREGON

Harney Lake Klamath

STATE OF TEXAS

Jeff Davis Judspeth Parmer

Beaver

STATE OF UTAH

Box Elder Cache Carbon Daggett Davis Duchesne Emery Garfield Grand Iron Juab Kane Millard Morgan Piute Rich Salt Lake San Juan Sanpete Sevier Summit Tooele Uintah Utah Wasatch Wayne Weber

Albany Campbell Carbon Converse Fremont Goshen Hot Springs Johnson Laramie Lincoln Natrona Niobrara Park Platte Sublette Sweetwater Teton Uinta Washakie Weston

# PART 1074—PREEMPTION OF STATE STANDARDS AND PROCEDURES FOR WAIVER OF FEDERAL PRE-EMPTION FOR NONROAD EN-GINES AND NONROAD VEHI-**CLES**

#### Subpart A—Applicability and General **Provisions**

Sec. 1074.1 Applicability. 1074.5 Definitions. 1074.10 Scope of preemption. 1074.12 Scope of preemption—specific provisions for locomotives and locomotive en-

# Subpart B—Procedures for Authorization

1074.101 Procedures for California nonroad authorization requests.

1074.105 Criteria for granting authorization. 1074.110 Adoption of California standards by other states.

1074.115 Relationship of federal and state standards.

AUTHORITY: 42 U.S.C. 7401-7671q.

SOURCE: 73 FR 59379, Oct. 8, 2008, unless otherwise noted.

# Subpart A—Applicability and General Provisions

# §1074.1 Applicability.

The requirements of this part apply with respect to state and local standards and other requirements relating to the control of emissions from nonroad engines and nonroad vehicles.